

# 30 Pattern Answer

21 January 2026 12:22

## Pattern 1

```
*  
**  
***  
****  
*****
```

```
for (int i = 1; i <= 5; i++) {  
    for (int j = 1; j <= i; j++) {  
        System.out.print("*");  
    }  
    System.out.println();  
}
```

## Pattern 2

```
*****  
****  
***  
**  
*
```

```
for (int i = 5; i >= 1; i--) {  
    for (int j = 1; j <= i; j++) {  
        System.out.print("*");  
    }  
    System.out.println();  
}
```

## Pattern 3

```
*  
**  
***  
**  
*
```

```
for (int i = 1; i <= 3; i++) {  
    for (int j = 1; j <= i; j++) {  
        System.out.print("*");  
    }  
    System.out.println();  
}  
for (int i = 2; i >= 1; i--) {  
    for (int j = 1; j <= i; j++) {  
        System.out.print("*");  
    }  
}
```

```
System.out.println();
}
```

## Pattern 4 (Right aligned)

```

*
**
***
****
*****

```

```

for (int i = 1; i <= 5; i++) {
for (int s = 5; s > i; s--) {
    System.out.print(" ");
}
for (int j = 1; j <= i; j++) {
    System.out.print("*");
}
System.out.println();
}

```

## Pattern 5

```

*****
****
***
**
*

```

```

for (int i = 5; i >= 1; i--) {
for (int s = 5; s > i; s--) {
    System.out.print(" ");
}
for (int j = 1; j <= i; j++) {
    System.out.print("*");
}
System.out.println();
}

```

## Pattern 6

```

*
***
*****
*****

```

```

for (int i = 1; i <= 4; i++) {
for (int j = 1; j <= (2 * i - 1); j++) {
    System.out.print("*");
}
System.out.println();
}

```

## Pattern 7

```

*****
*****
***
*

```

```

for (int i = 4; i >= 1; i--) {
    for (int j = 1; j <= (2 * i - 1); j++) {
        System.out.print("*");
    }
    System.out.println();
}

```

## Pattern 8 (Hollow)

```

*****
*   *
*****

```

```

for (int i = 1; i <= 3; i++) {
    for (int j = 1; j <= 5; j++) {
        if (i == 2 && j > 1 && j < 5) {
            System.out.print(" ");
        } else {
            System.out.print("*");
        }
    }
    System.out.println();
}

```

## Pattern 9

```

*
* *
* * *
* * * *

```

```

for (int i = 1; i <= 4; i++) {
    for (int j = 1; j <= i; j++) {
        System.out.print("* ");
    }
    System.out.println();
}

```

## Pattern 10 (Diamond)

```

*
***
*****
***
*

```

```

for (int i = 1; i <= 3; i++) {
    for (int j = 1; j <= 2 * i - 1; j++) {
        System.out.print("*");
    }
}

```

```

    }
    System.out.println();
}
for (int i = 2; i >= 1; i--) {
    for (int j = 1; j <= 2 * i - 1; j++) {
        System.out.print("*");
    }
    System.out.println();
}

```

## Pattern 11

```

1
12
123
1234
12345

```

```

for (int i = 1; i <= 5; i++) {
    for (int j = 1; j <= i; j++) {
        System.out.print(j);
    }
    System.out.println();
}

```

## Pattern 12

```

1
22
333
4444

```

```

for (int i = 1; i <= 4; i++) {
    for (int j = 1; j <= i; j++) {
        System.out.print(i);
    }
    System.out.println();
}

```

## Pattern 13

```

1
21
321
4321

```

```

for (int i = 1; i <= 4; i++) {
    for (int j = i; j >= 1; j--) {
        System.out.print(j);
    }
    System.out.println();
}

```

## Pattern 14

1  
2 3  
4 5 6  
7 8 9 10

```
int num = 1;
for (int i = 1; i <= 4; i++) {
    for (int j = 1; j <= i; j++) {
        System.out.print(num + " ");
        num++;
    }
    System.out.println();
}
```

## Pattern 15

5  
45  
345  
2345  
12345

```
for (int i = 5; i >= 1; i--) {
    for (int j = i; j <= 5; j++) {
        System.out.print(j);
    }
    System.out.println();
}
```

## Pattern 16 (0–1)

1  
01  
101  
0101

```
for (int i = 1; i <= 4; i++) {
    int val = (i % 2 == 1) ? 1 : 0;
    for (int j = 1; j <= i; j++) {
        System.out.print(val);
        val = 1 - val;
    }
    System.out.println();
}
```

## Pattern 17

1  
121  
12321  
1234321

```
for (int i = 1; i <= 4; i++) {
    for (int j = 1; j <= i; j++) {
```

```

        System.out.print(j);
    }
    for (int j = i - 1; j >= 1; j--) {
        System.out.print(j);
    }
    System.out.println();
}

```

## Pattern 18 (Pascal)

```

1
11
121
1331

```

```

int[][] arr = {
    {1},
    {1,1},
    {1,2,1},
    {1,3,3,1}
};
for (int i = 0; i < arr.length; i++) {
    for (int j = 0; j < arr[i].length; j++) {
        System.out.print(arr[i][j]);
    }
    System.out.println();
}

```

## Pattern 19

```

A
AB
ABC
ABCD

```

```

for (char i = 'A'; i <= 'D'; i++) {
    for (char j = 'A'; j <= i; j++) {
        System.out.print(j);
    }
    System.out.println();
}

```

## Pattern 20

```

A
BB
CCC
DDDD

```

```

char ch = 'A';
for (int i = 1; i <= 4; i++) {
    for (int j = 1; j <= i; j++) {
        System.out.print(ch);
    }
    ch++;
}

```

```
    System.out.println();  
}
```

## Pattern 21

A  
BA  
CBA  
DCBA

```
char ch = 'A';  
for (int i = 1; i <= 4; i++) {  
    for (char j = ch; j >= 'A'; j--) {  
        System.out.print(j);  
    }  
    ch++;  
    System.out.println();  
}
```

## Pattern 22

A  
BC  
DEF  
GHIJ

```
char ch = 'A';  
for (int i = 1; i <= 4; i++) {  
    for (int j = 1; j <= i; j++) {  
        System.out.print(ch);  
        ch++;  
    }  
    System.out.println();  
}
```

## Pattern 23

\*1  
\*2\*  
\*3\*3  
\*4\*4\*4

```
for (int i = 1; i <= 4; i++) {  
    System.out.print("*");  
    for (int j = 1; j <= i; j++) {  
        System.out.print(i);  
        System.out.print("*");  
    }  
    System.out.println();  
}
```

## Pattern 24

1\*

12\*  
123\*  
1234\*

```
for (int i = 1; i <= 4; i++) {  
    for (int j = 1; j <= i; j++) {  
        System.out.print(j);  
    }  
    System.out.println("");  
}
```

## Pattern 25

\* \* \* \*  
\* \* \*  
\* \*

```
for (int i = 4; i >= 2; i--) {  
    for (int s = 4; s > i; s--) {  
        System.out.print(" ");  
    }  
    for (int j = 1; j <= i; j++) {  
        System.out.print("* ");  
    }  
    System.out.println();  
}
```

## Pattern 26

\* \*  
\*  
\* \*

```
for (int i = 1; i <= 3; i++) {  
    if (i == 2) {  
        System.out.println(" * ");  
    } else {  
        System.out.println("* *");  
    }  
}
```

## Pattern 27

1 0 1 0  
0 1 0 1  
1 0 1 0  
0 1 0 1

```
for (int i = 0; i < 4; i++) {  
    for (int j = 0; j < 4; j++) {  
        System.out.print((i + j) % 2 + " ");  
    }  
    System.out.println();  
}
```



## Pattern 28

```
1
2 3
4 5 6
7 8 9 10
```

```
int num = 1;
for (int i = 1; i <= 4; i++) {
    for (int s = 4; s > i; s--) {
        System.out.print(" ");
    }
    for (int j = 1; j <= i; j++) {
        System.out.print(num + " ");
        num++;
    }
    System.out.println();
}
```

## Pattern 29 (Box)

```
****
*  *
*  *
****
```

```
for (int i = 1; i <= 4; i++) {
    for (int j = 1; j <= 4; j++) {
        if (i == 1 || i == 4 || j == 1 || j == 4) {
            System.out.print("*");
        } else {
            System.out.print(" ");
        }
    }
    System.out.println();
}
```